

**anti-human CD131 purified****Cat-No.:** H12466**0.1 mg****Clone:** 1C1

**Specificity:** CD131, also known as the common  $\beta$  subunit( $\beta_c$ ), is a 95-120 kD type 1 transmembrane glycoprotein and belongs to the Ig superfamily. The common  $\beta$  subunit associates with the specific  $\alpha$  subunits of IL-3 receptor, IL-5 receptor and GM-CSF receptor to form high affinity receptors for these cytokines. These cytokine receptors are expressed by neutrophils, eosinophils, monocytes, endothelial cells, fibroblasts and hematopoietic progenitor cells and play a crucial role in growth/activation of eosinophils and in the inflammatory response. The 1C1 antibody is a non-blocking antibody. It is distributed to low levels on monocytes, granulocytes, eosinophils, basophils, hematopoietic progenitors and endothelial cells.

**Isotype subclass:** Mouse IgG1,k**Form:** The antibody was purified by affinity chromatography.**Purity:** > 95% (by SDS-PAGE)**Physical state:** Liquid**Buffer/Additives/Preservative:**

PBS containing 0.09% sodium azide, pH 7.4

**Expiration date:** The reagent is stable until the expiry date stated on the vial label**Storage conditions:** Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.**References:**

1. Sun, Q., et al., 1999. Blood 94:1943
2. Woodcock, J., et al., 1997. Blood 90:3005
3. Lopez, A., et al., 1991. J. Biol. Chem. 266:24741

**Application:**FC, IP<sup>2</sup>, WB<sup>1,2</sup>:

Application notes: additional reported applications (for the relevant formats) include: Western blotting<sup>1,2</sup> and immunoprecipitation<sup>2</sup>. The 1c1 antibody does not block binding of IL-3 and is a non-neutralizing antibody.

Application references: 1.) Stomski, F.C., et al., 1998. J. Biol. Chem. 273:1192 2.) Stomski, F.C., et al., 1999. Blood 94:1933 3.) Mark, A., et al., 2000. Mol. Cell 6:99

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analyses. For immunofluorescent staining, the suggested use of this reagent is < 1.0 $\mu$ g per million cells in 100 $\mu$ l volume or 100 $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only**. Not for use in human. For in vitro use only.

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